AI & ML RESEARCH PUBLICATION GUIDANCE

YIQIAO YIN

EMAIL: EAGLE0504@GMAIL.COM
SITE: HTTPS://WWW.YIQIAO-YIN.COM/

CONTENT

- AI RESEARCH MILESTONE
- STEP BY STEP BREAK-DOWN
- TECH PLATFORM AND DATABASE MANAGEMENT

I	II	III	IV	V
TOPIC SELECTION	**EXPERIMENT DESIGN**	**CONDUCT EXPERIMENT**	**PAPER**	**PUBLICATION**
ASK AN INTERESTING RESEARCH QUESTION	DATA COLLECTION & WRANGLING, EDA, VERIFY DATA CAN ANSWER THE RESEARCH QUESTION	WRITE THE PYTHON CODE AND PRODUCT THE MACHINE LEARNING PIPELINE	PRODUCE A PROFESSIONALLY WRITTEN ACADEMIC PAPER	JOURNAL SELECTION AND SUBMISSION, AND GET READY FOR REVIERES AND PRESENTATIONS

AI RESEARCH MILESTONE

ELEMENT I	ELEMENT II	ELEMENT III

I

TOPIC SELECTION

ASK AN INTERESTING
RESEARCH QUESTION

YOUR RESEARCH TOPIC HELPS THE WORLD AND IT ANSWERS QUESTIONS THAT CONTRIBUTE TO THE SOCIETY.
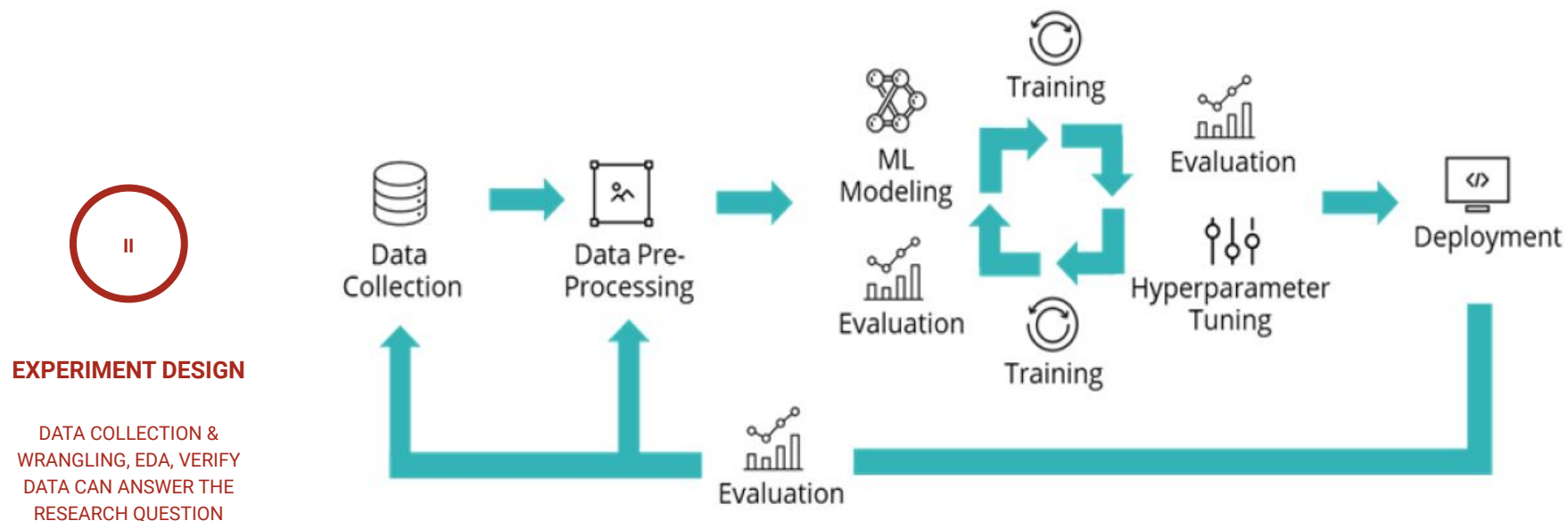
YOUR RESEARCH TOPIC REQUIRES CERTAIN SKILLS AND TECHNIQUES THAT CAN ADVANCE YOUR CAREER.

YOUR RESEARCH IS EASY TO BE ACHIEVED. EX: YOUR RESEARCH TOPIC CAN BE DONE WITHIN 10 WEEKS.

TOPIC SELECTION

EXPERIMENT DESIGN

DATA COLLECTION &
WRANGLING, EDA, VERIFY
DATA CAN ANSWER THE
RESEARCH QUESTION

Source: Data-Centric AI

EXPERIMENT DESIGN

III

CONDUCT EXPERIMENT

WRITE THE PYTHON CODE
AND PRODUCT THE MACHINE
LEARNING PIPELINE

CONDUCT EXPERIMENT

I — **DEFINE ML OR AI PROBLEM**

MAKE SURE YOU TRANSITION FROM YOUR RESEARCH
QUESTION TO A PARTICULAR DATA SCIENCE OF MACHINE
LEARNING QUESTION.
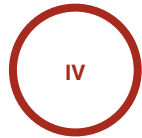
II — **ALGORITHM AND EXPERIMENT DESIGN**

DESIGN THE ENTIRE DIAGRAM OF YOUR EXPERIMENT AND
ENVISION WHERE THINGS COULD GO WRONG

III — **PRODUCE CLEAN CODE**

CODE! CODE! CODE!

IV — **BACKTEST AND SOFTWARE**

BACKTEST YOUR ALGORITHM ON TEST DATA AND DEVELOP
POTENTIAL SOFTWARE FOR PUBLICATION AND COMMERCIAL
USAGE.

https://wyn-associates.com/ | https://yiqiao-yin.com/

https://www.youtube.com/YiqiaoYin

How to do research and get papers published?

IV

PAPER

PRODUCE A PROFESSIONALLY WRITTEN ACADEMIC PAPER

CENTRAL IDEA

THE CENTRAL IDEA NEEDS TO BE A GOOD SELL!

LOGICAL FRAMEWORK

THE PAPER HAS CLEAR ILLUSTRATION OF THE LOGICAL FRAMEWORK OF YOUR EXPERIMENT.

RESULTS PRESENTATION

THE LAB AND EXPERIMENT RESULTS NEED TO BE CLEARLY PRESENTED

FORMATTING

THE FORMATTING OF THE PAPER SHOULD FOLLOW JOURNAL REQUIREMENTS.

ACADEMIC PAPER

A PROFESSIONAL ACADEMIC PAPER NEEDS TO HAVE 4 PILLARS FROM THE LEFT:

1) CENTRAL IDEA
2) LOGICAL FRAMEWORK
3) RESULTS PRESENTATION
4) FORMATTING

PAPER

https://wyn-associates.com/ | https://yiqiao-yin.com/   https://www.youtube.com/YiqiaoYin

01 JOURNAL SELECTION

- HIGH SCHOOL: THIS IS THE MOST COMMON ONE
- COLLEGE JOURNAL: THIS IS SLIGHTLY MORE COMPETITIVE
- ACADEMIC JOURNAL: THIS IS THE MOST COMPETITIVE

02 SUBMIT YOUR JOURNAL

- SUBMIT PDF (SOMETIMES EDITORS ASK FOR LATEX)
- SUBMIT ANY GRAPHICS, SOUND, SUPPLEMENT IF AVAILABLE
- CHOOSE REVIEWERS (ASKED OCCASIONALLY)
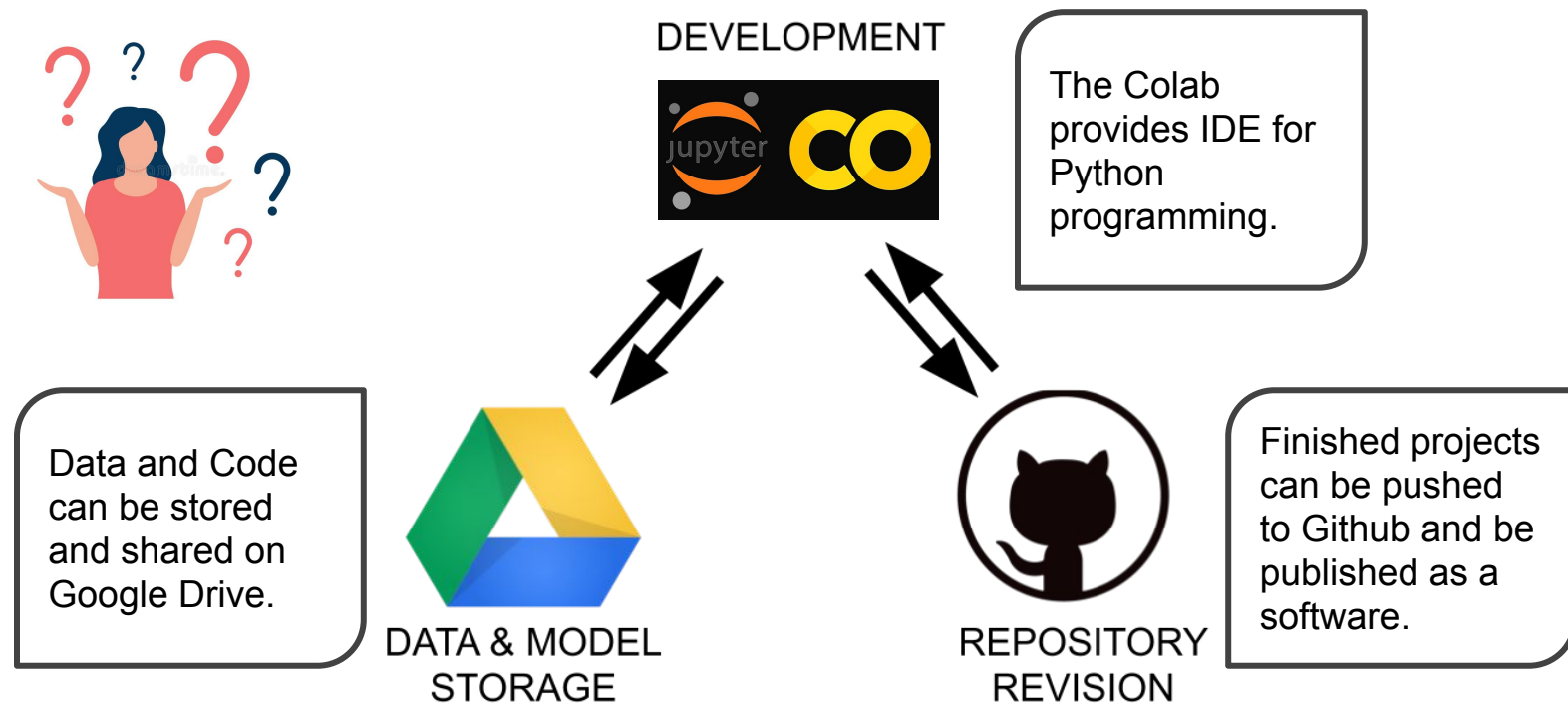
03 DEBATE WITH REVIEWERS

- THIS IS UNLIKELY FOR HIGH SCHOOL OR COLLEGE JOURNALS
- THIS IS DEFINITELY REQUIRED FOR ACADEMIC JOURNALS

04 PUBLICATION

- PROFESSIONAL ACADEMIC JOURNALS USUALLY ASK FOR A FEE CALLED ARTICLE PROCESSING CHARGES (FOR LARGE JOURNALS, THIS CAN BE UP TO 2000-3000 USD)
- THIS IS UNLIKELY FOR HIGH SCHOOL OR COLLEGE JOURNALS

V

PUBLICATION

JOURNAL SELECTION AND SUBMISSION, AND GET READY FOR REVIERES AND PRESENTATIONS

PUBLICATION

DEVELOPMENT

The Colab provides IDE for Python programming.

Data and Code can be stored and shared on Google Drive.

DATA & MODEL STORAGE

Finished projects can be pushed to Github and be published as a software.

REPOSITORY REVISION

DEVELOPMENT AND DATABASE MANAGEMENT

ANY QUESTIONS?

YIQIAO YIN

EMAIL: EAGLE0504@GMAIL.COM
SITE: HTTPS://WWW.YIQIAO-YIN.COM/